CS 160
CS Orientation
Conditionals, Repetition, and Strings
# Loop Logic Structure

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<th>Flowchart</th>
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<td>5. Loop&lt;br&gt;Instruction&lt;br&gt;Instruction&lt;br&gt;Instruction&lt;br&gt;Until &lt;logical expression&gt;</td>
<td>![Flowchart Diagram]</td>
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<td>6. :</td>
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Python Loop Logic

for x in range(7):
    print("*", end="")

OR

x=1
while(x<=7):
    print("*", end="")
    x+=1
Demo...
Strings

• Create a string
  ```
  my_string="hello";
  ```
• Access a character
  ```
  my_string[0] #gives you first character
  ```
• Length
  ```
  len(my_string)
  ```
Demo...
In-class Exercise #3

• Explain what each of line in this code does and tell me what the output is:
  y=0;
  for x in range(10):
    if(x%2):
      y=y+1;
  print(y);
• Without using a built-in function... How will you make sure you get a good positive integer?
• Write a loop to print the following picture:
  print("   *");
  print(" *** ");
  print(" **** ");
  print(" ***** ");
  print("*******");
Demo...